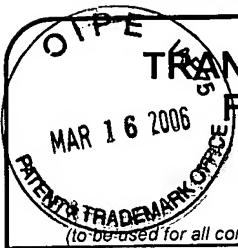


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 TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/517,968	
	Filing Date	December 13, 2004	
	First Named Inventor	Roger BOEN	
	Art Unit	2673	
	Examiner Name	Unassigned	
Total Number of Pages in This Submission	14	Attorney Docket Number	034299-611

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm	THELEN REID & PRIEST LLP		
Signature			
Printed Name	Suvashis Bhattacharya		
Date	3/14/06	Reg. No.	46,554

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria VA 22313-1450 on the date shown below.

Signature	<u>Kathleen K. Muto</u>		
Typed or printed name	Kathleen K. Muto	Date	3-14-06

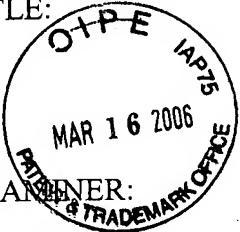
This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including the gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Roger BOEN et al.

SERIAL NO.: 10/517,968 CONFIRMATION No.: 1948

FILING DATE: December 13, 2004

TITLE:  ELECTROMAGNETIC DEVICE FOR FUSION AND INTERFACIAL AGITATION OF DIPHASE SYSTEMS, PARTICULARLY FOR THE ACCELERATION OF METALLURGIC OR PYROCHEMICAL PROCESSES

EXAMINER: Unassigned

ART UNIT: 2673

Certificate of Mailing

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Date: 3-14-06 Signature: Kathleen K. Muto
Kathleen K. Muto

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P.O. Box 1450
Alexandria, VA 22313-1450

REPLACEMENT OF FILING RECEIPT

We received the attached filing receipt for the above-referenced case, which states the following:

- 1) the title as "Electromagnetic device for interfacial melting and stirring [sic] of diphasic systems in particular for accelerating metallurgic or pyrochemical processes"; and
- 2) under Power of Attorney, "Robert Krebs – 25,885."

Therefore, please amend the appropriate records to reflect the following corrections:

- 3) the title as Electromagnetic Device For Fusion And Interfacial Agitation Of Diphase Systems, Particularly For The Acceleration of Metallurgic Or Pyrochemical Processes, pursuant to the attached copy of the first page of the Specification as filed on December 13, 2004; and

- 4) the correct listing of attorneys for this matter. A power of attorney (attached) was originally submitted on December 13, 2004. We submit herewith a document entitled "Patent

Practitioners to be Made of Record Pursuant to 37 C.F.R. §1.32(c)(3)" to limit those identified to ten or fewer practitioners. Additionally, applicants request an updated filing receipt reflecting the amendments requested.

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1698.

Respectfully submitted,

THELEN REID & PRIEST LLP

Dated:

3/14/06



Suvashis Bhattacharya
Reg. No. 46,554

THELEN REID & PRIEST LLP
P.O. Box 640640
San Jose, CA 95164-0640
Telephone: (408) 292-5800
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Page 1 of 2
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATR DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/517,968	12/13/2004	2831	1260	034299-611	2	12	1

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Thelen Reid & Priest
PO Box 640640
San Jose, CA 95164-0640

JUN 20 2005

THELEN REID & PRIEST LLP

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Roger Boen, Guanten los Cajelles, FRANCE;
Xavier Deschanel, La lombe de Robin, FRANCE;
Florent Lemort, Villeneuve Les Avignon, FRANCE;
Rene Piccinato, Marseille, FRANCE;
Yves Fautrelle, Meylan, FRANCE;
Jacqueline Etay, Oleyen, FRANCE;
Damien Perrier, Grenoble, FRANCE;
Roland Ernst, Gieres, FRANCE;

Power of Attorney:

Robert Krebs--25885

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/FR03/01742 06/11/2003

Foreign Applications

FRANCE 02/07262 06/13/2002

Reviewed By: _____ Date: _____
No Action Required: _____
Action Required: _____

Projected Publication Date: 09/15/2005

Non-Publication Request: No

Mail log _____ Date _____

Early Publication Request: No

DOCKETED

CPI JUL 22 2005 Date _____

Excel _____ Date _____

Title

Electromagnetic device for interfacial melting and stirring of diphasic systems in particular for accelerating metallurgical or pyrochemical processes

Preliminary Class

174

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Roger BOEN et al.
SERIAL NO.: 10/517,968 CONFIRMATION NO.: 1948
FILING DATE: December 13, 2004
TITLE: ELECTROMAGNETIC DEVICE FOR FUSION AND INTERFACIAL AGITATION OF DIPHASE SYSTEMS, PARTICULARLY FOR THE ACCELERATION OF METALLURGIC OR PYROCHEMICAL PROCESSES
EXAMINER: Unassigned
ART UNIT: 2673

CERTIFICATE OF MAILING

I hereby certify that this paper is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop: Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date printed below:

Date: 3-14-06Name: Kathleen K. Muto

Kathleen K. Muto

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P.O. Box 1450
Alexandria, VA 22313-1450

PATENT PRACTITIONERS TO BE MADE OF RECORD
Pursuant to 37 C.F.R. § 1.32(c)(3)

Please replace the patent practitioners made of record in the Declaration and Power of Attorney filed in the instant application on December 13, 2004 (copy attached), with the following ten patent practitioners as being of record in the application to which the power of attorney is directed:

David B. Ritchie, Reg. No. 31,562
Marc S. Hanish, Reg. No. 42,626
John P. Schaub, Reg. No. 42,125
Hal J. Bohner, Reg. No. 27,856
Masako Ando, Ltd. Rec. L0016

Robert E. Krebs, Reg. No. 25,885
Khaled Shami, Reg. No. 38,745
Steven J. Robbins, Reg. No. 40,299
Suvashis Bhattacharya, Reg. No. 46,554
Thomas Van Zandt, Reg. No. 43,219

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1698.

Respectfully submitted,

THELEN REID & PRIEST LLP

Dated:

3/14/06



Marc S. Hanish
Reg. No. 42,626

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COPY

ELECTROMAGNETIC DEVICE FOR FUSION AND INTERFACIAL AGITATION**DIPHASE SYSTEMS, PARTICULARLY FOR THE ACCELERATION OF
METALLURGIC OR PYROCHEMICAL PROCESSES****DESCRIPTION****TECHNICAL FIELD**

The present invention relates to a fusion and interfacial agitation device for a diphase system.

It particularly applies to the acceleration of 10 metallurgic processes as well as to the acceleration of pyrochemical processes.

STATE OF THE PRIOR ART

Metallurgic elaboration or refining procedures 15 generally implement two immiscible phases between which exchanges of materials take place.

The fusion of phases can be ensured in different ways, for example by Joule effect or by induction.

20 Agitation of the interface of the two phases uses mechanical or pneumatic methods. This agitation is indispensable to the acceleration of the physico-chemical process so as to attain equilibrium times that are short enough for the procedures to be profitable.

25 Figure 1 is a schematic and partial view of a known device making it possible to melt a diphase system and to agitate the interface of this system.

COPY

B 14042.3 PV



Declaration, Power Of Attorney and Petition

Page 1 of 4

WE (I) the undersigned inventor(s), hereby declare(s) that :

My residence, post office address and citizenship are as stated below next to my name,

We (I) believe that we are (I am) the original, first, and joint (sole) inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ELECTROMAGNETIC DEVICE FOR FUSION AND INTERFACIAL AGITATION OF DIPHASE SYSTEMS, PARTICULARLY FOR THE ACCELERATION OF METALLURGIC OR PYROCHEMICAL PROCESSES

the specification of which

- is attached hereto.
- was filed on _____ as Application Serial No. _____ and amended on _____
- was filed as PCT international application Number PCT/FR03/01742 on June 11, 2003 and was amended under PCT Article 19 on August 16, 2008

We (I) hereby state that we (I) have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We (I) acknowledge the duty to disclose information known to be material to the patentability of this application as defined in Section 1.56 of Title 37 Code of Federal Regulations.

We (I) hereby claim foreign priority benefits under 35 U.S.C. § 119 (a)-(d) or § 365 (b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed. Prior Foreign Application (s)

Application No.	Country	Day/month/Year	Priority Claimed
02 07262	FRANCE	JUNE 13, 2002	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
_____	_____	_____	<input type="checkbox"/> YES <input type="checkbox"/> NO
_____	_____	_____	<input type="checkbox"/> YES <input type="checkbox"/> NO
_____	_____	_____	<input type="checkbox"/> YES <input type="checkbox"/> NO

We (I) hereby claim the benefit under Title 35, United States Code, § 119 (e) of any United States provisional application(s) listed below.

(Application Number)

(Filing Date)

(Application Number)

(Filing Date)

We (I) hereby claim the benefit under 35 U.S.C. §120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of prior application and the national or PCT International filing date of this application.

Application Serial No.	Filing Date	Status (pending, patented, abandoned)
_____ _____ _____	_____ _____ _____	_____ _____ _____

And we (I) hereby appoint : Robert E. Krebs, Registration No. 25,885; David B. Ritchie, Registration No. 31,562; Marc S. Hanish, Registration No. 42,626; John P. Schaub, Registration No. 42,125; Gerhard W. Thielman, Registration No. 43,186; Adrienne Yeung, Registration No. 44,000; Steven J. Robbins, Registration No. 40,299; Thierry K. Lo, Registration No. 49,097; William Samuel Niece, Registration No.: P47,824; and John Klaas Uilkema, Registration No. 20,282 ; our (my) attorneys of record with full power of substitution and revocation, to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith; and we (I) hereby request that all correspondence regarding this application be sent to the firm of THELEN REID & PRIEST LLP whose Post Office Address is : P.O. Box 640640, San Jose, CA 95164-0640.

We (I) declare that all statements made herein of our (my) own knowledge are true and that all statements made on information and belief are believed to be true ; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardise the validity of the application or any patent issuing thereon.

BOEN Roger

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Signature of Inventor

Date 31 juillet 2004

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FRANCE

Citizen of : FRANCAISE

Post Office Address : The same as residence

DESCHANELS Xavier

NAME OF SECOND INVENTOR



Signature of Inventor

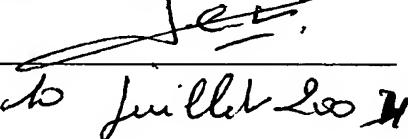
30 juillet 2004
Date

LEMORT Florent

NAME OF THIRD INVENTOR

LEMORT Florent

Signature of Inventor

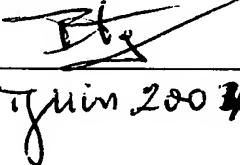

Date 20 juillet 2004

PICCINATO René

NAME OF FOURTH INVENTOR

PICCINATO René

Signature of Inventor

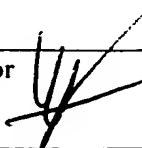
Date 18 juin 2004


FAUTRELLE Yves

NAME OF FIFTH INVENTOR

FAUTRELLE Yves

Signature of Inventor

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Date

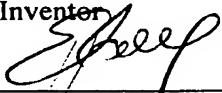
27 juin 2004

ETAY Jacqueline

NAME OF SECOND INVENTOR

ETAY Jacqueline

Signature of Inventor



Date

30 Juin 2004

PERRIER Damien

NAME OF THIRD INVENTOR

PERRIER Damien

Signature of Inventor



Date

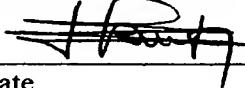
27 juin 2004

ERNST Roland

NAME OF FOURTH INVENTOR

ERNST Roland

Signature of Inventor



Date

27 juin 2004

NAME OF FIFTH INVENTOR

Signature of Inventor

Date

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38610 - GIÈRES, FRANCE

Citizen of : FRANCE

Post Office Address : The same as residence

Residence : _____

Citizen of : _____

Post Office Address : The same as residence